



Higher yields are available with K-Mag[®] fertilizer



K-Mag benefits

Supplies essential nutrients often overlooked by traditional NPK programs

Virtually 100% water-soluble – K, Mg and S are immediately available to crops

No risk of fertilizer burn thanks to low chloride levels and a low salt index

Helps boost yields without affecting soil pH

Typical broadcast rates are 150-300 lbs/A, but soil analysis should direct usage. Additional K may be required.

Why K-Mag?

The shortage of just one essential nutrient can shortchange soybean yields and profits. Growers can optimize yields and maximize profits by providing a balanced soil fertility program that ensures all 17 essential nutrients are available to plants.

K-Mag fertilizer provides three essential nutrients in the highly available sulfate form. Available in PREMIUM, GRANULAR and STANDARD grades, K-Mag provides 21-22% potassium (K₂O), 10.5-11% magnesium (Mg) and 21-22% sulfur (S).

Also known as langbeinite, potassium magnesium sulfate, or double sulfate of potash, K-Mag is sourced from ore beds deep beneath the earth's surface, where an isolated lake of ocean water once existed. Langbeinite, an evaporite mineral, is one of the most soluble salts in the ocean.

Increase soybean yields

Soil fertility often is overlooked in the production of soybeans, a crop known for its efficient use of residual nutrients. However, providing balanced nutrition, along with good soil pH, is critical to achieving proper nodule formation and yield. Adequate soil fertility helps reduce risks from weather stresses, diseases and nematodes. Soybeans require large amounts of crop nutrients, especially phosphorus (P) and K. A 60-bushel yield removes 48 lb/A of P and 84 lb/A of K in the grain. Regular soil testing will help determine the level of needed nutrients.

Approximate nutrient removal (lb/A) for a 70-bushel soybean crop

Plant part	Nutrient				
	N	P ₂ O ₅	K ₂ O	Mg	S
Grain	266	59	91	15	13
Stubble (leaves, stems, etc.)	77	17	70	15	13
Total	343	76	161	30	26

Source: The Mosaic Company

Potassium (K)

Proper K levels are critical to successful pod formation. K helps increase the total number of pods, and helps the plant retain pods until harvest. Added K also benefits a plant's water balance, making it better able to withstand periods of drought. As K concentrations increase, transpiration loss of water from leaves decreases.

Magnesium (Mg)

High K rates can inhibit a plant's uptake of Mg, essential to photosynthesis. If Mg is deficient, the shortage of chlorophyll can result in poor and stunted plant growth. The loss of a healthy green color is an indicator of Mg deficiency. K-Mag provides a readily available soluble source of Mg, and it supplies K and Mg in the proper balance.

Sulfur (S)

S is essential for optimal nodule formation on legume roots. The nodule-forming bacteria help fix nitrogen from the atmosphere so that it can be incorporated into plant proteins. As the backbone of three different amino acids, S itself also is a key constituent in plant proteins, an important contributor to crop quality. Soybeans may respond to S on sandy soils or soils low in organic matter.

Ensure your soybean crop has all the nutrients it needs to thrive. Contact us today to learn about adding K-Mag to your balanced soil fertility program!

kmag.com



The Mosaic Company, 3033 Campus Drive, Plymouth, Mn. 55441

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